

De-lcer

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 27-9-2018 Revision date: 6-2-2020 Supersedes: 10-7-2019 Version: 1.4

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| Product form | : Mixture |
|---------------|-----------------|
| Trade name | : De-Icer |
| Product code | : 10.20.02 |
| Product group | : Trade product |

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Industrial use,Professional use,Consumer use : Use in de-icing and anti-icing fluids

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon Oil BV Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital | Penarth CF64 2XX Cardiff | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| Flammable liquids, Category 3 | H226 |
|---|------|
| Serious eye damage/eye irritation, Category 2 | H319 |
| Full text of H statements : see section 16 | |

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | GHS02 GH | HS07 |
|--------------------------------|-------------------------|--|
| Signal word (CLP) | Warning | |
| Hazard statements (CLP) | H226 - Flammable liqu | uid and vapour. |
| | H319 - Causes seriou | us eye irritation. |
| Precautionary statements (CLP) | P101 - If medical advi | rice is needed, have product container or label at hand. |
| | P102 - Keep out of rea | each of children. |
| | P210 - Keep away fro | om heat, hot surfaces, sparks, open flames and other ignition sources. |
| | No smoking. | |
| | P264 - Wash hands th | horoughly after handling. |
| | P280 - Wear protectiv | ve gloves, protective clothing, eye protection. |
| | P305+P351+P338 - IF | F IN EYES: Rinse cautiously with water for several minutes. Remove |
| | contact lenses, if pres | sent and easy to do. Continue rinsing. |
| | P337+P313 - If eye irr | ritation persists: Get medical advice/attention. |
| | P501 - Dispose of con | ntents/container to hazardous or special waste collection point, in |
| | accordance with local | l, regional, national and/or international regulation. |

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------|--|----------|---|
| Ethanol | (CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 | 50 – 80 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 |
| 1,2-ethanediol | (CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28 | 2,5 – 10 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |

Full text of H-statements: see section 16

| : Remove person to fresh air and keep comfortable for breathing. |
|--|
| Rinse skin with water/shower. Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. If eve irritation persists: Get medical advice/attention. |
| : Call a poison center or a doctor if you feel unwell. |
| s, both acute and delayed |
| : Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness. |
| Eye irritation.Ingestion may cause nausea, vomiting and diarrhea. |
| |

4.3. Indication of any immediate medical attention and special treatment needed

Seek urgent medical help. Treat symptomatically.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| SECTION 5: Firefighting measures | | | |
|---|---|--|--|
| 5.1. Extinguishing media | | | |
| Suitable extinguishing media Unsuitable extinguishing media | Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream. | | |
| 5.2. Special hazards arising from the substance or mixture | | | |
| Fire hazard Hazardous decomposition products in case of fire | Flammable liquid and vapour. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. | | |
| 5.3. Advice for firefighters | | | |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. | | |

| SECTION 6: Accidental release measures | | | |
|---|---|--|--|
| 6.1. Personal precautions, protective equip | oment and emergency procedures | | |
| 6.1.1. For non-emergency personnel | | | |
| Protective equipment | : Wear suitable protective clothing. Concerning personal protective equipment to use, see section 8. | | |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. | | |
| 6.1.2. For emergency responders | | | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". | | |
| 6.2. Environmental precautions | | | |
| Avoid release to the environment. | | | |
| 6.3. Methods and material for containment | and cleaning up | | |

| Methods for cleaning up Other information | Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site. |
|--|--|
| 6.4. Reference to other sections | |

For further information refer to section 13.

| SECTION 7: Handling and storage | |
|---|--|
| 7.1. Precautions for safe handling | |
| Precautions for safe handling Hygiene measures | Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storage, including | any incompatibilities |
| Technical measures Storage conditions | Ground/bond container and receiving equipment.Store in a well-ventilated place. Keep cool. Keep container tightly closed. |
| 7.3. Specific end use(s) | |
| No additional information available | |

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection 8.1. Control parameters Ethanol (64-17-5) United Kingdom - Occupational Exposure Limits Local name Ethanol WEL TWA (mg/m³) 1920 mg/m³ WEL TWA (ppm) 1000 ppm Regulatory reference EH40/2005 (Fourth edition, 2020). HSE

| 1,2-ethanediol (107-21-1) | | |
|---|---|--|
| EU - Occupational Exposure Limits | | |
| Local name | Ethylene glycol | |
| IOELV TWA (mg/m³) | 52 mg/m³ | |
| IOELV TWA (ppm) | 20 ppm | |
| IOELV STEL (mg/m³) | 104 mg/m ³ | |
| IOELV STEL (ppm) | 40 ppm | |
| Notes | Skin | |
| egulatory reference COMMISSION DIRECTIVE 2000/39/EC | | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Ethane-1,2-diol | |
| WEL TWA (mg/m³) | 10 mg/m³ particulate 52 mg/m³ vapour | |
| WEL TWA (ppm) | 20 ppm vapour | |
| WEL STEL (mg/m³) | 104 mg/m³ vapour | |
| WEL STEL (ppm) | 40 ppm vapour | |
| Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

| Hand protection: | | | | | |
|-------------------------------------|-------------------------|-----------------------|---------------------------|-------------------------|----------------------|
| Chemical resistant glov producer | es (according to Europe | an standard NF EN 374 | or equivalent). Time of p | enetration is to be che | ecked with the glove |
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥ 0.35 | | EN ISO 374 |

Eye protection:

Safety glasses with side shields. (EN 166). Safety glasses

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Туре | Use | Characteristics | Standard |
|----------------|---------|-----------------|----------|
| Safety glasses | Droplet | clear | EN 166 |

Skin and body protection: Wear suitable protective clothing

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit. Approved organic vapour respirator

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations. Do not eat, drink or smoke during use. Always wash hands after handling the product.

| 9.1. Information on basic physical and cl | nemical properties |
|---|----------------------|
| | |
| Physical state | : Liquid |
| Colour | : Blue. |
| Ddour | : citrus. |
| Ddour threshold | : No data available |
| bH | : 6,5 – 9,5 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : 84 °C |
| Flash point | : 23 °C |
| Auto-ignition temperature | : 400 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| /apour pressure | : 4446 Pa (20°C) |
| /apour pressure at 50 °C | : 214,92 hPa |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 0,851 |
| Density | : 886 kg/m³ at 20 °C |
| Solubility | : Water: Soluble |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| /iscosity, kinematic | : No data available |
| /iscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Dxidising properties | : No data available |
| Lower explosive limit (LEL) | : 3,4 vol % |
| Jpper explosive limit (UEL) | : 19 vol % |

9.2. Other information

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. Flammable liquid and vapour.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use. During handling at high temperatures : In the presence of water, forms corrosive solutions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Hygroscopic product. Prevent moisture contact. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon oxides (CO, CO2).

| SECTION 11: Toxicological inf | ormation |
|---|--|
| 11.1. Information on toxicological | effects |
| Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) | Not classified Not classified Not classified |
| Ethanol (64-17-5) | |
| LD50 oral rat | 15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560 |
| LD50 oral | 8300 mg/kg bodyweight Animal: mouse |

| 1,2-ethanediol (107-21-1) | |
|-------------------------------------|---|
| LD50 oral rat | 7712 mg/kg bodyweight Animal: rat |
| LD50 dermal | 3500 mg/kg bodyweight mouse |
| LC50 inhalation rat (mg/l) | > 2,5 mg/l |
| Skin corrosion/irritation : | Not classified pH: 6,5 – 9,5 |
| Serious eye damage/irritation : | Causes serious eye irritation. pH: 6,5 – 9,5 |
| Respiratory or skin sensitisation : | Not classified |
| Germ cell mutagenicity : | Not classified |
| Carcinogenicity : | Not classified |

| 1,2-ethanediol (107-21-1) | |
|---|--|
| NOAEL (chronic, oral, animal/male, 2 years) | 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information) |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| STOT-repeated exposure | : Not classified |
|--|--|
| Ethanol (64-17-5) | |
| NOAEL (subchronic, oral, animal/male, 90 days) | < 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| NOAEL (subchronic, oral, animal/female, 90 days) | > 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |

Aspiration hazard

: Not classified

SECTION 12: Ecological information

| 12.1. Toxicity | |
|---|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| Ethanol (64-17-5) | |
|-------------------|--|
| LC50 fish | 14,2 g/l Test organisms (species): Pimephales promelas |
| NOEC (chronic) | 9,6 mg/l Test organisms (species): Daphnia magna Duration: '9 d' |

| 1,2-ethanediol (107-21-1) | |
|---------------------------|---|
| LC50 fish | 72860 mg/l Test organisms (species): Pimephales promelas |
| EC50 Daphnia | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 96h algae (1) | 3536 mg/l Test organisms (species): other:grenn algae |
| EC50 96h algae (2) | 6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d' |

12.2. Persistence and degradability

| 12.2. Tersistence and degradability | |
|---|-------------------------------|
| De-Icer | |
| Persistence and degradability | Biodegradable. |
| | |
| 1,2-ethanediol (107-21-1) | |
| Biodegradation | 90 % > 10d (OECD 301A method) |
| 12.3. Bioaccumulative potential | |
| 1,2-ethanediol (107-21-1) | |
| Partition coefficient n-octanol/water (Log Kow) | -1,36 |
| 12.4. Mobility in soil | |
| 1,2-ethanediol (107-21-1) | |
| Partition coefficient n-octanol/water (Log Koc) | 1 |

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| 12.5 Results | of PRT and vi | PvB assessment |
|--------------|---------------|----------------|
| The results | | VD ussessment |

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods Additional information
- Dispose of contents/container in accordance with licensed collector's sorting instructions.Flammable vapours may accumulate in the container.
- European List of Waste (LoW) code
- Flammable vapours may accumulate in the container.
 16 05 08* discarded organic chemicals consisting of or containing dangerous substances

SECTION 14: Transport information

| ADR | IMDG | ΙΑΤΑ | ADN | RID |
|---|--|---|---|---|
| 14.1. UN number | 1 | 1 | | 1 |
| UN 1987 | UN 1987 | UN 1987 | UN 1987 | UN 1987 |
| 14.2. UN proper shippin | ig name | | | |
| ALCOHOLS, N.O.S. (Ethanol) | ALCOHOLS, N.O.S. (Ethanol) | Alcohols, n.o.s. (Ethanol) | ALCOHOLS, N.O.S. (Ethanol) | ALCOHOLS, N.O.S. (Ethanol) |
| Transport document desci | ription | 1 | | |
| UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, III, (D/E) | UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, III (23°C c.c.) | UN 1987 Alcohols, n.o.s. (Ethanol), 3, III | UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, III | UN 1987 ALCOHOLS, N.O.S. (Ethanol), 3, III |
| 14.3. Transport hazard | class(es) | | | |
| 3 | 3 | 3 | 3 | 3 |
| | | | | |
| 14.4. Packing group | | · · · · · · | | |
| III | III | III | 111 | 111 |
| 14.5. Environmental haz | zards | · · · · · | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

14.6. Special precautions for user

Overland transport

| Classification code (ADR) | : | F1 |
|---|---|-------------------------|
| Special provisions (ADR) | : | 274, 601 |
| Limited quantities (ADR) | : | 51 |
| Excepted quantities (ADR) | : | E1 |
| Packing instructions (ADR) | : | P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : | MP19 |
| Portable tank and bulk container instructions (ADR) | : | Τ4 |
| | | |

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | s amenument rregu | |
|---|-------------------|------------|
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29 | |
| | : LGBF | |
| Tank code (ADR) | | |
| Vehicle for tank carriage | : FL | |
| Transport category (ADR) | : 3 | |
| Special provisions for carriage - Packages (ADR) | : V12 | |
| Special provisions for carriage - Operation (ADR) | : S2 | |
| Hazard identification number (Kemler No.) | : 30 | |
| Orange plates | 20 | |
| | 30 | |
| | 1007 | |
| | 1987 | |
| Tunnel restriction code (ADR) | : D/E | |
| EAC code | : •3YE | |
| | . "JIL | |
| Transport by sea | | |
| Special provisions (IMDG) | : 223, 274 | |
| Packing instructions (IMDG) | : P001, LP01 | |
| IBC packing instructions (IMDG) | : IBC03 | |
| Tank instructions (IMDG) | : T4 | |
| Tank special provisions (IMDG) | : TP1, TP29 | |
| EmS-No. (Fire) | : F-E | |
| EmS-No. (Spillage) | : S-D | |
| Stowage category (IMDG) | : A | |
| Flash point (IMDG) | : 23°C c.c. | |
| | 0 0 0.0. | |
| Air transport | | |
| PCA Excepted quantities (IATA) | : E1 | |
| PCA Limited quantities (IATA) | : Y344 | |
| PCA limited quantity max net quantity (IATA) | : 10L | |
| PCA packing instructions (IATA) | : 355 | |
| PCA max net quantity (IATA) | : 60L | |
| CAO packing instructions (IATA) | : 366 | |
| CAO max net quantity (IATA) | : 220L | |
| Special provisions (IATA) | : A3, A180 | |
| ERG code (IATA) | : 3L | |
| Inland waterway transport | | |
| Classification code (ADN) | : F1 | |
| Special provisions (ADN) | : 274, 601 | |
| Limited quantities (ADN) | : 5 L | |
| Excepted quantities (ADN) | : E1 | |
| Carriage permitted (ADN) | : T | |
| . . , | : PP, EX, A | |
| Equipment required (ADN) | | |
| Ventilation (ADN) | : VE01 | |
| Number of blue cones/lights (ADN) | : 0 | |
| Rail transport | | |
| Classification code (RID) | : F1 | |
| Special provisions (RID) | : 274, 601 | |
| Excepted quantities (RID) | : E1 | |
| Packing instructions (RID) | : P001, IBC03, | LP01, R001 |
| Mixed packing provisions (RID) | : MP19 | |
| Portable tank and bulk container instructions (RID) | : T4 | |
| Portable tank and bulk container special provisions | : TP1, TP29 | |
| (RID) | | |
| Tank codes for RID tanks (RID) | : LGBF | |
| Transport category (RID) | : 3 | |
| Special provisions for carriage – Packages (RID) | : W12 | |
| | | |
| Colis express (express parcels) (RID) | : CE4 | |
| Hazard identification number (RID) | : 30 | |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Directive 2012/18/EU (SEVESO III)

| Seveso III Part I (Categories of dangerous substances) | Qualifying quantity (tonnes) | |
|--|------------------------------|------------|
| | Lower-tier | Upper-tier |
| P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b | 5000 | 50000 |

15.1.2. National regulations

Ensure all national/local regulations are observed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes: | | | |
|------------------------|---------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 2.2 | Precautionary statements (CLP) | Modified | |
| 4.1 | First-aid measures after skin contact | Modified | |
| 4.1 | First-aid measures after eye contact | Modified | |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| ΙΑΤΑ | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LD50 | Median lethal dose |
| LC50 | Median lethal concentration |

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| LOAEL | Lowest Observed Adverse Effect Level |
|-------|---|
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STP | Sewage treatment plant |
| TLM | Median Tolerance Limit |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

Training advice

: Not to be used for any purpose other than the one the product was designed for.

| Full text of H- and EUH-statements: | | |
|-------------------------------------|--|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Flam. Liq. 2 | Flammable liquids, Category 2 | |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 | |
| H225 | Highly flammable liquid and vapour. | |
| H226 | Flammable liquid and vapour. | |
| H302 | Harmful if swallowed. | |
| H319 | Causes serious eye irritation. | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.